

SEQUENCE LISTING

<110> De Vries, Gerald W.

<120> Methods of Extending Corneal Graft
Survival

<130> P-AR 4951

<160> 7

<170> FastSEQ for Windows Version 4.0

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<212> DNA

<213> Homo sapiens

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<221> CDS

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atg acc ccc ccg acc ttg aac atc acg gag gag tca cac gtc atc gac     147
Met Thr Pro Pro Thr Leu Asn Ile Thr Glu Glu Ser His Val Ile Asp
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acc ggt gac agc ctg tcc atc tcc tgc agg gga cag cac ccc ctc gag     195
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Thr	Thr	Ala	Ala	Ser	Ser	Tyr	Val	Phe	Val	Arg	Asp	Phe	Glu	Gln	Pro	
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ttc	atc	aac	aag	cct	gac	acg	ctc	ttg	gtc	aac	agg	aag	gac	gcc	atg	483
Phe	Ile	Asn	Lys	Pro	Asp	Thr	Leu	Leu	Val	Asn	Arg	Lys	Asp	Ala	Met	
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Trp	Val	Pro	Cys	Leu	Val	Ser	Ile	Pro	Gly	Leu	Asn	Val	Thr	Leu	Arg	
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Ser	Gln	Ser	Ser	Val	Leu	Trp	Pro	Asp	Gly	Gln	Glu	Val	Val	Trp	Asp	
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gac	cgg	cgg	ggc	atg	ctc	gtg	tcc	acg	cca	ctg	ctg	cac	gat	gcc	ctg	627
Asp	Arg	Arg	Gly	Met	Leu	Val	Ser	Thr	Pro	Leu	Leu	His	Asp	Ala	Leu	
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Tyr	Leu	Gln	Cys	Glu	Thr	Thr	Trp	Gly	Asp	Gln	Asp	Phe	Leu	Ser	Asn	
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Pro Phe Ile Ser Val Glu Trp Leu Lys Gly Pro Ile Leu Glu Ala Thr				
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Ala Gly Asp Glu Leu Val Lys Leu Pro Val Lys Leu Ala Ala Tyr Pro				
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Pro Pro Glu Phe Gln Trp Tyr Lys Asp Gly Lys Ala Leu Ser Gly Arg				
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His Ser Pro His Ala Leu Val Leu Lys Glu Val Thr Glu Ala Ser Thr				
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Gly Thr Tyr Thr Leu Ala Leu Trp Asn Ser Ala Ala Gly Leu Arg Arg				
395	400	405	410	
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Asn Ile Ser Leu Glu Leu Val Val Asn Val Pro Pro Gln Ile His Glu				
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aag gag gcc tcc tcc ccc agc atc tac tcg cgt cac agc cgc cag gcc				1347
Lys Glu Ala Ser Ser Pro Ser Ile Tyr Ser Arg His Ser Arg Gln Ala				
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Leu Thr Cys Thr Ala Tyr Gly Val Pro Leu Pro Leu Ser Ile Gln Trp				
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His Trp Arg Pro Trp Thr Pro Cys Lys Met Phe Ala Gln Arg Ser Leu				
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cgg cgg cgg cag cag caa gac ctc atg cca cag tgc cgt gac tgg agg				1491
Arg Arg Arg Gln Gln Gln Asp Leu Met Pro Gln Cys Arg Asp Trp Arg				
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gcg gtg acc acg cag gat gcc gtg aac ccc atc gag agc ctg gac acc				1539
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Trp Thr Glu Phe Val Glu Gly Lys Asn Lys Thr Val Ser Lys Leu Val				
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Ile Gln Asn Ala Asn Val Ser Ala Met Tyr Lys Cys Val Val Ser Asn				
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Tyr	Val	Cys	Glu	Val	Gln	Asp	Arg	Arg	Ser	His	Asp	Lys	His	Cys	His	
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Cys	Leu	Val	Ala	Gly	Ala	His	Ala	Pro	Ser	Ile	Val	Trp	Tyr	Lys	Asp	
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Glu	Arg	Leu	Leu	Glu	Glu	Lys	Ser	Gly	Val	Asp	Leu	Ala	Asp	Ser	Asn	
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Gln	Lys	Leu	Ser	Ile	Gln	Arg	Val	Arg	Glu	Glu	Asp	Ala	Gly	Pro	Tyr	
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Val	Val	Glu	Ala	Ser	Ala	Phe	Gly	Ile	His	Lys	Gly	Ser	Ser	Cys	Asp	
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Arg	Ala	Leu	Met	Ser	Glu	Leu	Lys	Ile	Leu	Ile	His	Ile	Gly	Asn	His	
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ctc	aac	gtg	gtc	aac	ctc	ctc	ggg	gcg	tgc	acc	aag	ccg	cag	ggc	ccc	2787
Leu	Asn	Val	Val	Asn	Leu	Leu	Gly	Ala	Cys	Thr	Lys	Pro	Gln	Gly	Pro	
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ctc	atg	gtg	atc	gtg	gag	ttc	tgc	aag	tac	ggc	aac	ctc	tcc	aac	ttc	2835
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Lys Thr Glu Gly Gly Ala Arg Arg Ala Ser Pro Asp, Gln Glu Ala Glu	
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Val Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Tyr Lys Asp Pro	
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gac tac gtc cgc aag ggc agt gcc cgg ctg ccc ctg aag tgg atg gcc	3267
Asp Tyr Val Arg Lys Gly Ser Ala Arg Leu Pro Leu Lys Trp Met Ala	
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Gln Ala Asp Ala Glu Asp Ser Pro Pro Ser Leu Gln Arg His Ser Leu			
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Ala Ala Arg Tyr Tyr Asn Trp Val Ser Phe Pro Gly Cys Leu Ala Arg			
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Pro Met Thr Pro Thr Thr Tyr Lys Gly Ser Val Asp Asn Gln Thr Asp			
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<212> PRT

<213> Homo sapiens

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Asn	Ile	Thr	Glu	Glu	Ser	His	Val	Ile	Asp	Thr	Gly	Asp	Ser	Leu	Ser
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Ile	Ser	Cys	Arg	Gly	Gln	His	Pro	Leu	Glu	Trp	Ala	Trp	Pro	Gly	Ala
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65					70					75					80
Val	Arg	Asp	Cys	Glu	Gly	Thr	Asp	Ala	Arg	Pro	Tyr	Cys	Lys	Val	Leu
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Leu	Leu	His	Glu	Val	His	Ala	Asn	Asp	Thr	Gly	Ser	Tyr	Val	Cys	Tyr
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Ser	Ile	Pro	Gly	Leu	Asn	Val	Thr	Leu	Arg	Ser	Gln	Ser	Ser	Val	Leu
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Trp	Pro	Asp	Gly	Gln	Glu	Val	Val	Trp	Asp	Asp	Arg	Arg	Gly	Met	Leu
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Val	Ser	Thr	Pro	Leu	Leu	His	Asp	Ala	Leu	Tyr	Leu	Gln	Cys	Glu	Thr
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Arg Val Leu Gly Tyr Gly Ala Phe Gly Lys Val Val Glu Ala Ser Ala
850 855 860
Phe Gly Ile His Lys Gly Ser Ser Cys Asp Thr Val Ala Val Lys Met
865 870 875 880
Leu Lys Glu Gly Ala Thr Ala Ser Glu Gln Arg Ala Leu Met Ser Glu
885 890 895
Leu Lys Ile Leu Ile His Ile Gly Asn His Leu Asn Val Val Asn Leu
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915 920 925
Phe Cys Lys Tyr Gly Asn Leu Ser Asn Phe Leu Arg Ala Lys Arg Asp
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Ala Phe Ser Pro Cys Ala Glu Lys Ser Pro Glu Gln Arg Gly Arg Phe
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Arg Ala Met Val Glu Leu Ala Arg Leu Asp Arg Arg Arg Pro Gly Ser
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Arg Arg Ala Ser Pro Asp Gln Glu Ala Glu Asp Leu Trp Leu Ser Pro
995 1000 1005
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Ser Ala Arg Leu Pro Leu Lys Trp Met Ala Pro Glu Ser Ile Phe Asp
1075 1080 1085
Lys Val Tyr Thr Thr Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu
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Trp Glu Ile Phe Ser Leu Gly Ala Ser Pro Tyr Pro Gly Val Gln Ile
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Asn Glu Glu Phe Cys Gln Arg Val Arg Asp Gly Thr Arg Met Arg Ala
1125 1130 1135
Pro Glu Leu Ala Thr Pro Ala Ile Arg His Ile Met Leu Asn Cys Trp
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Gln Val Ser Thr Met Ala Leu His Ile Ala Gln Ala Asp Ala Glu Asp
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Trp Val Ser Phe Pro Gly Cys Leu Ala Arg Gly Ala Glu Thr Arg Gly

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Tyr Lys Gly Ser Val Asp Asn Gln Thr Asp Ser Gly Met Val Leu Ala		
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Ser Glu Glu Phe Glu Gln Ile Glu Ser Arg His Arg Gln Glu Ser Gly		1280
1285	1290	1295
Phe Ser Cys Lys Gly Pro Gly Gln Asn Val Ala Val Thr Arg Ala His		
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Pro Asp Ser Gln Gly Arg Arg Arg Arg Pro Glu Arg Gly Ala Arg Gly		
1315	1320	1325
Gly Gln Val Phe Tyr Asn Ser Glu Tyr Gly Glu Leu Ser Glu Pro Ser		
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 Gly Glu Ala Thr Ala Tyr Ala Ser Lys Asp Leu Glu Glu Gln Leu Arg
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 Ser Val Ser Ser Val Asp Glu Leu Met Thr Val Leu Tyr Pro Glu Tyr

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Arg	Glu	Gln	Ala	Asn	Leu	Asn	Ser	Arg	Thr	Glu	Glu	Thr	Ile	Lys	Phe	
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Ala	Ala	Ala	His	Tyr	Asn	Thr	Glu	Ile	Leu	Lys	Ser	Ile	Asp	Asn	Glu	
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Trp	Arg	Lys	Thr	Gln	Cys	Met	Pro	Arg	Glu	Val	Cys	Ile	Asp	Val	Gly	
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His	Thr	Ser	Cys	Arg	Cys	Met	Ser	Lys	Leu	Asp	Val	Tyr	Arg	Gln	Val	
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His	Ser	Ile	Ile	Arg	Arg	Ser	Leu	Pro	Ala	Thr	Leu	Pro	Gln	Cys	Gln	
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Ala	Ala	Asn	Lys	Thr	Cys	Pro	Thr	Asn	Tyr	Met	Trp	Asn	Asn	His	Ile	
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Cys	Arg	Cys	Leu	Ala	Gln	Glu	Asp	Phe	Met	Phe	Ser	Ser	Asp	Ala	Gly	
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Ala	Asn	Leu	Asn	Ser	Arg	Thr	Glu	Glu	Thr	Ile	Lys	Phe	Ala	Ala	Ala				
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His	Tyr	Asn	Thr	Glu	Ile	Leu	Lys	Ser	Ile	Asp	Asn	Glu	Trp	Arg	Lys				
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Ser	Thr	Ser	Tyr	Leu	Ser	Lys	Thr	Leu	Phe	Glu	Ile	Thr	Val	Pro	Leu				
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Cys	Arg	Cys	Met	Ser	Lys	Leu	Asp	Val	Tyr	Arg	Gln	Val	His	Ser	Ile				
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Leu	Ala	Gln	Glu	Asp	Phe	Met	Phe	Ser	Ser	Asp	Ala	Gly	Asp	Asp	Ser				
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